

Product datasheet for **MC203326**

Atg7 (NM_028835) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atg7 (NM_028835) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atg7
Synonyms:	1810013K23Rik; Agp7; Apg7l; Atg7l; Gm21553
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC058597
 GGAAGTTGAGCGGCGCTGGTAAGAACAGTAGCCATGGGGGACCCTGGACTGGCCAAGTTGCAGTTCGCC
 CCCTTTAATAGTGCCCTGGACGTTGGCTTCTGGCACGAACTGACCAGAAGAAGTTGAACGAGTACCGCC
 TGGACGAGGCACCCAAAGACATCAAGGGCTATTACTACAAATGGTGACTCTGCTGGTCTGCCACCCGCTT
 GACGTTGGAGTTCAGTGCTTTTGACATGAGTGCCTCCACGCTGCCACTGCTGCCCGGCCATGGGAACC
 CTGCACAACACCAACACTTGGAGCTTTAAGACAGCAGACAAGAAGCTCCTTCTGGAGCAGTCAGCAA
 ATGAGATCTGGGAAGCCATAAAGTCAGGTGCTGCTCTCGAAAACCCCATGCTCCTCAACAAGTTTCTGCT
 CCTGACCTTCGCGGACCTAAAGAAGTACCATTCTACTACTGGTTTTGCTGCCCGCCCTCTGTCTTCT
 GAGAGCATCCCTCTAATCCGGGGACCTGTGAGCTTGGATCAAAGCTTTACCAAAAACAGATCCAGGCC
 TGGAGCATGCCTATGATGATCTGTGTCGAGCCGAAGGCGTCACGGCCCTGCCCTACTTCTTATTCAAGTA
 CGATGACGACACTGTTCTGGTCTCCTTGTCAAACACTACAGTGATTTCTTCAAGGTCAAAGGACAAAAG
 ATAACAGTTGGTGTGTACGATCCCTGTAACCTAGCCAGTACCCTGGATGGCCTTTGAGGAATTTTTGG
 TCCTGGCAGCCCACAGATGGAGCGGCAGTTCCAGTCCGTTGAAGTCTCTGCTTTGGGACCGCACCAT
 GCAGGGAGCTAGAGACGTGACACATAGCATCATCTTTGAAGTAAACTTCCAGAAATGGCATTAGCCCA
 GATTGTCCTAAAGCTGTTGGCTGGGAGAAGAACCAGAAAGGAGGCATGGGTCCGAGGATGGTGAACCTCA
 GTGGATGTATGGACCCAAAAGGCTGGCTGAGTCACTGTGGATCTGAATCTCAAGCTGATGTGCTGGCG
 ATGGTCCCCACCTTGGACTTGGACAAGGTCGTGTCTGTCAAGTCCCTGTGCTGGGAGCTGGTACCTTG
 GGTGTAATGTGGCTAGGACACTGATGGCTGGGGCGTCAGACATGTCACCTTTGTGGATAACGCCAAGA
 TCTCCTACTCCAATCCCCTGAGGCAGCCTCTGTATGAATTTGAAGATTGTCTAGGGGGTGGCAAGCCCAA
 GGCCCTGGCTGCAGCAGAGCGGCTACAGAAAATATTTCCCGGAGTGAATGCCAGAGGGTTCAACATGAGC
 ATCCCCATGCCAGGACACCCTGTAACTTCTCTGACGTACAGTGGAGCAGGCCCGCAGAGATGTGGAGC
 AGCTGGAGCAGCTCATTGATAACCATGATGTCATCTTCTGCTAATGGACACCAGGGAGCCGGTGGCT
 TCCTACTGTTATTGCAGCCAGCAAGCGAAAGCTGGTCAACAACGCTGCCTTGGGGTTGATACCTTTGTT
 GTCATGAGACATGGCCTGAAGAAAACCCAAAGCAGCAGGGAGCCGGAGACCTCTGCCAAGCCATCTGTAG
 CACCTGTGACCTGGGCTCCTCACTTTTTGCCAACATCCCTGGATACAAGCTTGGCTGCTACTTCTGCAA
 TGATGTGGTGGCTCCAGGAGATTCAACCAGAGACCCGACTCTGGACCAGCAGTGCACAGTGAAGCCCA
 GGCTGGCCGTGATTGCAGGTGCCCTGGCTGTGGAGCTGATGGTCTCTGTCTGCAGCATCTGAGGGGG
 GCTACGCCATCGCCAGCAGCAGTGTGACCGCATGAATGAGCCTCCACCTCGTGGGACTTGTGCCTCA
 CCAGATCCGGGGTTTTCTGTACGGTTCGATAATGTTCTTCTGTGACGCTGGCATTGATAAATGTACA
 GCCTGTTACCCAAAGTCTTGATCAGTACGAGCGAGAAGGATCACCTTCTAGCGAAGGTTTTAACT
 CCTCACATTCCTTCTTAGAAGACTTGACCGGTCTTACCCTGCTCCATCAAGAGACCCAAGCTGCTGAGAT
 CTGGGACATGAGTGACGAGGAGACTGTCTGAAGCAAGCAACCACAGCTCAGGAGTACCTGGCCCTACGG
 CAGGACTGGACCCGAGGACTGGTGTCTGGGCCCTGCCACCTCCCTGGTCTGATCTCCACATCTCCAAG
 GACGAGGGTGTACCCTCTGCCACCCAGTTGACCCCTTCTCTGTGCCATCTCACCAGCTCTGAACTCAATA
 ATAACCTTGGCATTGCCACTGATCTGGGGCTCAGGTCCTTCCATGTGACTAATCTCCCCCCCCACAC
 ACACACTGTTGTGAAGGACACCCAGGACCCAACATAGATCAGACAAGGCTGTGCTAGGAGCCTCACCG
 GTAGGGCACCTGCTCTGGGCCCTGGGTAGCAGTGTGCTGAGTTGTAGCCTCAAGTGTCAAGTGGCA
 CACCAAGCCACCTCCCCAGCTGTGGGCATGCTGTGTGCCACCTGTTCCAGGGATGGGAGAAGCTCCT
 GCCACAGCCCTGTACTGAAAAGCAGGGAAGAGCTCTGTAGGATGGGTGTGTCAGCTGGGCTGATCAGG
 TGCCCTCACTCACGGGGTTGCTCCTGGGCAAGGCTTGTCTTCTTCACTCTGGGTGGGCCCTTGGCA
 GCTGTGGCCACCCATCCTAAATAGATGAGCTGCTCCCCTCCCACACCTGTGCACCTTCACTGGGGTCTCA
 GGTCCAGAACAGAAGCCCATGCACGGCTGGCTTAGCAGTCTCAGGAAGGGAGACTAGAGAGGACCTTGG
 CCTAACACAGATGCTGCAACAAGCGGCCCTACCATCTGTGCAAGGCTCCCCACAAGTAGCCAGGCCATACC
 TGGGCACAGGGCCACAGCCACATGCCACCCTAGGAGTCAAGAGCCACACAGCCTCGGTTAAGAGCA
 CTTTATTATTGTTCTTAAGGCTACTTTTAAGTACAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_028835
Insert Size: 2097 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC058597 , AAH58597
RefSeq Size:	3059 bp
RefSeq ORF:	2097 bp
Locus ID:	74244
UniProt ID:	Q9D906
Cytogenetics:	6 E3
Gene Summary:	<p>This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon in the 5' coding region, resulting in the initiation of translation from a downstream start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which has a shorter N-terminus, compared to isoform 1.</p>